ORIGINAL

NEW APPLICATION



BEFORE THE ARIZONA CORPORATION COMMISSION KETED

2010 KAY 20 P 4: 31

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COMMISSIONERS

KRISTIN K. MAYES, Chairman GARY PIERCE PAUL NEWMAN SANDRA D. KENNEDY BOB STUMP AZ CORP COMMISSION DOONET CONTROL

DOCKETED BY

E-01345A-10-0210

IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY FOR APPROVAL OF TRANSMISSION COST ADJUSTOR CHARGES.

DOCKET NO. E-01345A-10-____

APPLICATION

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I. INTRODUCTION

Pursuant to Decision No. 67744 (April 7, 2005), Arizona Public Service Company ("APS" or "Company") hereby requests that the Commission approve Revision No. 5 to Adjustment Schedule TCA-1 ("TCA-1"), effective July 1, 2010. See Attachment A. TCA-1 reflects the transmission rates authorized by the Federal Energy Regulatory Commission ("FERC") that will become effective for users of the APS transmission system as of June 1, 2010. A red-lined version of TCA-1 is also included with this Application as Attachment B.

II. BASIS FOR THE COMPANY'S REQUEST

In Decision No. 67744, the Commission approved a transmission cost rate adjustment mechanism, or TCA. In Decision No. 70179 (February 27, 2008), the Commission approved the first implementation of the TCA. In Decision No. 70400 (July 3, 2008), the Commission approved a second adjustment to the TCA and then again in Decision No. 71244 (August 6, 2009). Finally, the presently-effective TCA was approved as part of Decision No. 71448 (December 30, 2009) and is affixed hereto as Attachment C.¹

¹ There was no change in the TCA rate at that time but merely some minor edits to the language of the schedule.

At the time the Commission entered Decision No. 71244, the Company was directed to submit a report on transmission additions that in part were reflected in the TCA. Attachment D hereto represents the 2009-2011 Transmission Additions Report requested by the Commission.

III. IMPACT OF THE PROPOSED TCA CHARGES

The impact on retail revenues from the new TCA charges is an overall reduction of approximately \$10 million per year. Because the impact on specific customer classes is dependent upon not only the overall revenue requirement but the allocation of that revenue requirement and the billing determinants (kWh or kW, as appropriate) over which that revenue requirement is collected, the residential TCA charge will slightly decrease, smaller general service customers will see a larger but still modest decrease, and large general service customers will see a moderate increase. For a typical APS residential customer, the TCA would decrease roughly \$0.13 per month or 0.1%. An analysis of typical customer bill impact is shown on Attachment E. The TCA charges also reflect any credits due to customers as a result of the previous year's review period of the FERC formula rate method.

When reviewing Attachment E, it is important to bear in mind that the FERC cost allocation method assigns transmission costs based on customer class demand during the four summer peak months. For that reason, the allocation of revenue requirement responsibility for transmission costs may vary from year to year, depending upon what class produced the greatest demand at system peak relative to other classes of retail customers. In 2009, the residential customer class contributed more demand to the summer peaks than in prior years, both in absolute terms and relative to other classes of APS customers, and its relative revenue requirement responsibility increased accordingly.² And, although the peak contribution of residential customers increased relative to other classes, 2009 residential energy sales were lower

² In 2008, residential customers were 53.02% of total retail summer demand, while the commercial and industrial customer classes were 40.36% and 6.62%, respectively. In 2009, residential customers comprised 54.5% of total retail demand.

than in previous years.³ This also resulted in upward rate pressure for the residential class. Both these factors were more than offset for 2009 by the lower total revenue requirement. However, such relatively small swings in revenue requirement responsibility from one year to the next are to be expected, and they could just as easily produce the opposite result in future years. For example, the last TCA adjustment saw a decrease for large general service customers and an increase for residential and small general service customers, which is precisely the opposite of the situation this year. ⁴

The review of the 2009 Annual Update of APS transmission costs performed by Staff and its consultant, identified adjustments to be made to certain rate-base and operating income items. These adjustments reduced 2009 retail transmission revenue requirement by some \$4.2 million. The adjustment for this amount is included in the proposed TCA rates.

IV. CONCLUSION

APS requests that the rates become effective on July 1, 2010. The rates posted by APS on OASIS on May 17, 2010 are to become effective for transmission customers on June 1st. Retail transmission charges should be effective as close to that June 1 date as is possible.

APS believes the requested TCA charges are fully consistent with the terms of Decision Nos. 67744, 69663, 70179, 70400, 71244 and 71448. APS therefore requests that the Commission approve TCA-1, attached hereto as Attachment A, effective for all affected bills issued by the Company beginning in the first billing cycle of July, 2010.

RESPECTFULLY SUBMITTED this 20th day of May 2010.

Thomas L. Mumzw Meghan H. Grabel

Attorneys for Arizona Public Service Company

Muma

³ Residential energy consumption fell 1.7% from 2008 to 2009.

⁴ In 2008, large general service customers were 6.62% of total retail summer demand compared to 6.76% for 2009. Large general service customers billed kW fell almost 6% from 2008 to 2009.

1	The original and 13 copies of the foregoing were
	filed this 20 th day of May 2010 with:
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3	Docket Control Arizona Corporation Commission
4	1200 West Washington
4	Phoenix, AZ 85007.
5	A 1 Calle Consider the delicent of a model of too
6	And copies of the foregoing were hand-delivered or e-mailed to:
. ,	Kristin K. Mayes, Chairman
7	Gary Pierce, Commissioner
8	Paul Newman, Commissioner
	Sandra K. Kennedy, Commissioner
9	Bob Stump, Commissioner
10	Ernest Johnson
10	Steve Olea
11	Terri Ford Barbara Keene
	Steve Irvine
12	Rebecca Wilder
13	Janice Alward
13	Janet Wagner
14	Maureen Scott
15	Lyn Farmer
15	Jodi Jerich, Residential Utility Consumer Office
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Attachment A



ADJUSTMENT SCHEDULE TCA-1 TRANSMISSION COST ADJUSTMENT

APPLICATION

The Transmission Cost Adjustment ("TCA") charge shall apply to all Standard Offer retail electric schedules with the exception of Solar-2. All provisions of the customer's current applicable rate schedule will apply in addition to this charge.

ANNUAL ADJUSTMENT

Standard Offer rate schedules covered by this charge include a transmission component of base rates that was originally established at \$0.00476 per kilowatt-hour in accordance with A.C.C. Decision No. 67744. Decision No. 67744 also established the TCA. Decision No. 69663 modified the collection of transmission costs in retail rates to tie to the costs found in the FERC approved Open Access Transmission Tariff.

RATE

The charge shall be applied as follows:

Customer Class	TCA Charge
Residential	\$0.002144/kWh
General Service 20 kW or less	\$0.001602/kWh
General Service over 20 kW, under 3,000 kW	\$0.740/kW
General Service 3,000 kW and over	\$0.259/kW

Attachment B



ADJUSTMENT SCHEDULE TCA-1 TRANSMISSION COST ADJUSTMENT

APPLICATION

The Transmission Cost Adjustment ("TCA") charge shall apply to all Standard Offer retail electric schedules with the exception of Solar-2. All provisions of the customer's current applicable rate schedule will apply in addition to this charge.

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RATE

The charge shall be applied as follows:

Customer Class	TCA Charge
Residential	\$0. 002258 002144/kWh
General Service 20 kW or less	\$0. 001889 001602/kWh
General Service over 20 kW, under 3,000 kW	\$0. 902 740/kW
General Service 3,000 kW and over	\$0. 225 259/kW

Attachment C



ADJUSTMENT SCHEDULE TCA-1 TRANSMISSION COST ADJUSTMENT

APPLICATION

The Transmission Cost Adjustment ("TCA") charge shall apply to all Standard Offer retail electric schedules, with the exception of Solar-2. All provisions of the customer's current applicable rate schedule will apply in addition to this charge.

ANNUAL ADJUSTMENT

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RATE

The charge shall be applied as follows:

Customer Class	TCA Charge
Residential	\$0.002258/kWh
General Service 20 kW or less	\$0.001889/kWh
General Service over 20 kW, under 3,000 kW	\$0.902/kW
General Service 3,000 kW and over	\$0.225/kW

Attachment D

Nov-09	80-IN	Dec-09	90-INF
\$66,773	\$103,051	\$11,679	\$58,340
N/A	N/A	A/A	N/A
V/V	This project increases the ability to incorporate Wind Generation into APS's 69kV system? In the Chollablow with a farm is already in-service and other wind farms have completed study work.	ΝΆ	This project increases the ability to incorporate Wind Generation into APS's 69kV system in the Cholla-Showlow system. One wind farm is already in-service and other wind farms have completed study work.
This project is needed to provide the electrical source and support to the sub-transmission system to serve the electrical needs in the Verde Valley and Prescott areas. Also, the project will result in increased reliability and continuity of service for the Verde Valley and Prescott areas for loss of Verde - Cottonwood 69kV line.	This project increases the ability to incorporate Wind Generation into APS's 69kV syste to the Cholla - Showlow system for loss of either the Cholla - Zeniff of Showlow system. Cholla - Showlow gokV lines. Cholla - Showlow 69kV lines. One wind farm is already in-service and other wind farm is already in-service completed study work.	This is part of the TS9-Pinnacle Peak 500kV project. The overall project is needed to increase the import capability to the Phoenix Metro area and the export/scheduling capability from the Pato Verde area to provide access to both solar and gas resources. The project also strengthens the transmission system on the east side of the Phoenix Metro valley.	This is for the development of the Sugarloaf substation site. The Sugarloaf project will result in increased reliability and continuity of service to the Cholla - Showlow system for loss of either the Cholla - Zeniff or Cholla - Showlow 69kV lines.
\$26,532,473	\$13,649,090	\$9,281,643	\$7,727,177
Dugas (VV01): 500/69kV Substation: Build New Substation	Sugarloaf (Second Knolls): Build New 69kV yard	Milligan: (South East 3) 230/69kV Substation: Build new Substation in Eloy	Sugarioaf (Second Knoll): Site Development For Entire Site And Access
W362303	W359055	W362301	W359053
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N/A \$43,014 Jul-09	N/A \$71,678 Feb-09	N/A \$17,614 Oct-09	N/A \$40,658 May-09	This project increases the ability to incorporate Wind APS's 69kV system in the Cholla-Showlow system. One wind farm is already in-service and other wind farms have completed study work.
APS standard practice is to have a spare GSU Transformer on site to minimize down time in the event of a transformer failure. Continuing to operate without a spare does not meet this business need. The alternative to rely on a viable spare being available from another company's inventory is very risky. Previous attempts to find such a spare have been unsuccessful.	APS standard practice is to have a spare GSU Transformer on site to minimize down time in the event of a transformer failure. Continuing to operate without a spare does not meet this business need. The alternative to rely on a viable spare being available from another company's inventory is very risky. Previous attempts to find such a spare have been unsuccessful.	This project is to replace the Edison Reactors at Moenkopi per the Edison Reactor Replacement Schedule. SR162 and SR163 are to be shipped to Four Comers to match up with SR164 (FC-MK line). Fire Wall & Oil Containment are required. Three reactors to be set on cribbing, dressed by Siemens while foundations & barriers are being installed. Siemens will transfer fully dressed reactors to new foundation. Additional cost to APS for cribbing and for additional move to new foundation.	This project will change out the Valley Farms 115/12kV transformer with a 100 MVA 115/69kV transformer and add a 69/12kV substation.	This project increases the ability to incorporate Wind Generation into Generation into APS's 69k's syste to the Cholla - Showlow system for loss of either the Cholla - Zeniff or Showlow system. Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. One wind farm is already in-service and other wind farm service and other wind farms have completed study work.
\$5,697,191	\$5,178,396	\$4,666,069	\$4,038,920	\$3,650,583
SPARE GSU TRANSFORMER	CC5 Spare GSU Transformer	Moenkopi: Replace Shunt Reactor	Valley Farms: 115/69kV Substation	Sugarloaf (Second Knoll) 69kV Line
RHC7029	WPC0040	W461339	W256684	W378504
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60-unp	Nov-09	60-unr	90-inc	May-09
\$ 31,823	\$6,568	\$22,407	\$19,098	\$21,359
N/A	N/A A	5.7	7.68	A/N
The increase to the EOR rating will allow all of the participants to utilize the path for importing and exporting additional renewable energy.	N/A	N/A	This project increases the ability to incorporate Wind Generation into APS's 69kV system. Showlow system. One wind farm is already in-service and other wind farms have completed study work.	N/A
This project plus upgrades on the Navajo-Crystal line will increase the non-simultaneous rating of the EOR path by 1245MW from 8055MW to 9300MW. Half of the 1245MW (622.5MW) will be allocated to the MPP.	This project will loop the Navajo - West Wing 500kV Line In & Out of the new Dugas 500kV switchyard and 500kV/69kV substation. The new switchyard is located two miles west of the Interstate 17 and Omme/Dugas Road Interchange and is adjacent to the east side of the Navajo - West Wing 500kV transmission line corridor. The loop In & Out requires the installation of two heavy angle lattice towers, two heavy angle monopoles, and installation of twin bundle 2156 ACSR conductor to match the existing circuits capacity. In addition, two existing tangent lattice towers and associated conductor & hardware will be removed.	Project is needed to provide the electrical support to the subtransmission system to serve the need for electric energy in the Wickenburg area. The project will improve the continuity of service for the growing communities in the area for loss of Flying E. Wickenburg 69V line.	This project increases the ability to incorporate Wind Generation into Generation into APS's 69kV syste to the Cholla - Showlow system for loss of either the Cholla - Zeniff or Showlow system. Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. Cholla - Showlow for loss of either the Cholla - Zeniff or Showlow system. One wind farm is already in-service and other wind farm is already in-service wind farms have completed study work.	Replace failed Westwing T10 spare transformer.
\$3,612,838	\$2,609,772	\$2,543,890	\$2,529,597	\$2,121,711
Upgrade Mead - Perkins Series	Dugas (Verde Valley01): 500kV Loop In & Out	Wickenburg Double Circuit	Sugarloaf Single Circuit to Zeniff Phase B	Westwing: Replace Failed T10 Spare Transformer (T788) ANPP 09-01
W335805	W353264	W354983	W419492	W410639
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San Luis to Rebuild	Õ	San Luis to Baja (SW3), 3 miles of 69 / 12kV Rebuild	\$2,036,567	This project is needed to build approximately 3 miles of new 69 kV line from Baja to the San Luis substation to service the Baja load.	N/A	က	\$10,251	Sep-09
Dugas: 525/69kV Spare Transformer	9kV Spare Transformer		\$2,018,560	This is one of a set of spare transformers for Sugarloaf, Dugas & North Gila (Dugas is a central location for storage.) This is part of Homeland Security needs.	N/A	N/A	\$5,080	Nov-09
Dugas: 525/69kV Spare Transformer	9kV Spare Transformer		\$2,018,431	This is one of a set of spare transformers for Sugarloaf, Dugas & North Gila (Dugas is a central location for storage.) This is part of Homeland Security needs.	N/A	N/A	\$5,080	Nov-09
Dugas: 525/69kV Spare Transformer		43	\$2,018,332	This is one of a set of spare transformers for Sugarloaf, Dugas & North Gila (Dugas is a central location for storage.) This is part of Homeland Security needs.	V/A	Υ A	\$5,079	Nov-09
Miligan Substation -Saguaro Substation 230kV Fiber Optic cable Link		₹,	\$1,855,791	This project will replace the East 3/8" EHS Stranded Steel Overhead Ground Wire (3/8" OHGW) with a 96 Count Fiber Optic Cable (OPGW) on the 230kV Transmission Line between Milligan Substation and the Saguaro Power Plant 230kV Switchyard (Saguaro), reinforcing H frame structures as required for a total distance of approximately 26 miles.	ΝΑ	26	\$2,335	Dec-09
Sugarloaf Single Circuit to Zeniff \$1,811,145		\$1,81	1,145	This project increases the ability to incorporate Wind Generation into Generation into Generation into APS's 69kV system to the Cholla - Showlow system for loss of either the Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. One wind farm is already in-service and other wind farm is completed study work.	This project increases the ability to incorporate Wind Generation into APS's 69kV system in the Cholla-Showlow system. One wind farm is already in-service and other wind farms have completed study work.	co	\$13.674	Jul-09
Dugas to Copper Canyon Phase 3 \$1,728,872		\$1,728	,872	A new 69kV line from Copper Canyon to Dugas is needed to prevent load shedding in the Cottonwood during an outage of the Cottonwood - Verde 69kV line.	∀/N	8	\$8,702	Sep-09
Utting Substation - Vicksburg Tap \$1,67		\$1,67	\$1,675,145	This project will result in increased reliability and continuity of service to the La Paz Area for loss of the Eagle Eye - Salome 69kV line.	N/A	Ą/Ż	\$23,187	Feb-09

60-unr	Jan-09	Feb-09	Sep-09	Nov-09	Apr-09	Aug-09
\$12,399		\$16,682	\$5,634	\$2,781	\$11,322	\$6,058
-	N/A	25	5	∀ /Ż	N/A	¥ Z
V/N	N/A	N/A	N/A	ΝΆ	∀/Z	N/A
This project will rebuild sections of the Mummy Mountain - Orangewood 69kV line to SRP 12kV underbuild. The APS circuit on these sections will also be upgraded to 795 ACSS.	There were 15 right of way transactions/renewals encompassed in this project for 2009.	This project will install 25 miles of 96 count Optical Ground Wire (OPGW) on existing 500kV towers between Yavapai Substation and the new Dugas Substation. Installation begins at Tower #179/1 inside Yavapai Sub and ends at Tower #204/1 just north of the new Dugas Sub. The 500kV In & Out project at Dugas Sub will complete the OPGW installation into the Dugas Yard. This cable will replace one of the existing 7-#8 AW static wires. This installation will provide one of the two communications paths to the new Dugas Sub.	The Lincoln Street - Sherman Street 69kV transmission line must be rebuilt to preserve continuity of service for the loss of the Durango - West Phoenix 69kV transmission line.	Series Cap Bank C10 (CBSE44) is obsolete and requires high cost and frequent maintenance. Based on condition and age, the capacitor bank requires replacement. The capacitor will be upgraded to 1750 amps and 40.5 Ohms to increase the path rating. The existing 2 step bank will be replaced with a single step bank.	The Yavapai-OHM 69kV line and OHM 69kV switching station is needed for reliability to the Chino Valley area. The line will provide support during outages between Willow Lake-Chino Valley and prevent load shedding for the loss of the Willow Lake-Grey Bears 69kV line.	This is the second phase of the 16th Street road widening project that the City of Yuma is constructing. APS is relocating the 69/12kV running east/west along the S/S/O 16th street, and the 12kV running north along the W/S/O Arizona Ave.
\$1,407,640	\$1,300,422	\$1,205,236	\$1,119,245	\$1,105,095	669'666\$	\$962,797
Mummy Mountain to Orangewood 69kV	Transmission Right of Way Capital Leases	Dugas Substation -Yavapai Substation 500kV Line: Install OPGW (Optical Ground Wire)	Lincoln Street - Sherman Street Reconductor	Dugas (Verde Valley 01): Change Out Series Capacitor Bank C10 to 40.50HMS & 1750A CBI 08-05 (NSTS)	Yavapai Sub: Add Ring Bu with 3-69kV breakers	City of Yuma; 16 St Widening - Arizona Ave Intersection - Phs 2
W133108	WF09RWTRA	W358543	W359500	W353150	W321957	W460329
23.	24.	25.	5 6.	27.	28.	29.

\$12,892 Feb-09	\$6,337 Jul-09	\$2,055 Nov-09	\$1,875 Nov-09	\$6,543 Jun-09	Oct-09
	ŷ,	\$2	₩ ₩	\$6,	
N/A	5 .	N/A	N/A	5.1	7
 V Helps schedule renewables to Phoenix Valley by increasing the scheduling capability from PV sis Hub and Navajo Y. system. 	oí N/A	N/A	N.A	N/A	Ϋ́
APS to install four lattice 500kV transmission towers in the WW - NV Helps schedule 500kV circuits in preparation for the North Valley Project 500kV choules to drops into Morgan (TS9) substation. This is part of the Morgan-Phoenix Valley b Finnacle Peak 500kV project. The overall project is needed to increasing the increase the import capability from the Palo Verde area to provide capability from Paccess to both solar and gas resources. The project also strengthens Hub and Navajo the transmission system on the east side of the Phoenix Metro valley. system.	Project is needed to provide electrical support to the subtransmission system to serve the need for electric energy in the Prescott area and increase continuity of service in the area for loss of Prescott City - White Spar 69kV line.	Replace the 500kV live tank circuit breaker (Generator Breaker) CH152 and associated current transformers (CTs). The purpose of this project is to improve the reliability of the generation breaker and reduce the risk of damage to the generator resulting in an extended unit outage and reduce SF6 gas leakage to the atmosphere. A slow acting breaker could "close in" the generator out of phase causing extensive damage to the generator.	Shunt Reactors SR77/78/79 at Westwing are at end of life and need to be replaced. A new substation (Dugas) is to "cut in" on the Navajo Westwing line in 2009 and the requirement for shunt reactors moves from Westwing to Dugas at that time. Therefore, SR77/78/79 are to be removed from Westwing and a new, three-phase reactor will be installed at Dugas.	This project will convert 1.5 miles of the existing Eastgate – Tottec Tap 69kV line to double circuit 69kV lines. With the addition of the Milligan 230/69kV substation the Toltec tap must be converted to a second circuit into the Eastgate substation to prevent three point relaying.	State land right-of-way acquisition for the Pyramid Peak - Raceway 69kV line.
\$931,364	\$839,335	\$816,472	\$745,060	\$742,841	\$742,375
Westwing-Navajo 500kV lattice tower installation for North Valley 500kV line drops at TS9 (APS/SRP)Participant	Prescott City Substation - to White Spar Sub 69kV Rebuild	Cholla: Replace 500kV CH152 Breaker & Associated CTS (Cholla 5)	Dugas (Verde Valley01): Install New 3 Phase Reactor NSTS CBI 08-14	Eastgate Double Circuit 69KV Line With UB 12KV	Pyramid Peak - Raceway (51st Ave Alignment) 7 miles
W430314	W356995	W433280	W373449	W347722	W403484
30.	3 .	32.	33.	2 .	35.

Arizona Public Service Company 2009 Transmission Addition Dollars and O&M

Feb-09	\$7,536	Z/A	Helps schedule renewables to Phoenix Valley by increasing the scheduling capability from PV Hub and Navajo system.	APS to install three 118 T-3 lattice 500kV transmission towers in the WWW - NV 500kV circuits as described below, in preparation for the North Valley Project 230kV drops into Raceway and TS9 substations. This is part of the Morgan-Pinnacle Peak 500kV project. The overall project is needed to increase the import capability to the Phoenix Metro area and the export/scheduling capability from the Palo Verde area to provide access to both solar and gas resources. The project also strengthens the transmission system on the east side of the Phoenix Metro valley.	\$544,449	Westwing-Navajo 500kV lattice tower installation for North Valley 230kV line drops at Raceway & TS9	W430319	1,
Dec-09	\$739	N/A	N/A	Construct the 230kV Lines Drops into Milligan Substation, cut two 230kV Single Circuit Taps into the existing Casa Grande-Saguaro 230kV Line at newly installed Milligan Substation, each Cut-in is a distance of approximately 265.	\$587,528	Milligan Substation: 230kV Line Drop	W388936	.04
Jan-09	\$9,137	N/A	ΝΆ	The Gateway substation is needed to serve the need for electric energy for the North Phoenix area. It is also needed to preserve continuity of service for the loss of the Deadman Wash - New River 69kV transmission line.	\$605,098	North Black Canyon Underground Project	W358218	96
Мау-09	\$6,320	Ψ/N	ΝΆ	The purpose of this project is to replace an existing 500 kV breaker and CTs, which have become unreliable. Breaker is frequently leaking SF6 gas and is near its end of useful life.	\$627,766	Unit 3 500KV Breaker CH1252 Replacement	CHC0224	38.
Dec-09	\$805	N/A	N/A	The transformer needed to be replaced due to Dissolved Gas Analysis readings that indicated there was degradation inside the transformer tank. The transformer was replaced during the Unit 2 outage in the fall of 2009.	\$639,858	Unit 2 SNO Transformer Replacement	CK2X9	37.
Feb-09	\$9,228		This project increases the ability to incorporate Wind Generation into APS's 69kV system in the Cholla-II Showlow system. One wind farm is already in-service and other wind farms have completed study work.	This project increases the ability to incorporate Wind Generation into APS's 69kV system to the Cholla - Showlow system for loss of either the Cholla - Zeniff or Showlow system. Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. Cholla - Showlow 69kV lines. One wind farm is already in-service and other wind farm is completed study work.	\$666,649	Sugarloaf Single Circuit to Zeniff A	W419491	99.

\$4,534 Jun-09	\$5,040 May-09	\$3,729 Jul-09	\$1,810 Oct-09	\$2,291 Sep-09	\$4,999 Apr-09	\$3,762 Jun-09	\$1,581 Oct-09	\$4,072 May-09	\$2,913 Jui-09	\$474 Dec-09	\$1,827 Sep-09
\$4	\$5	\$3	\$	\$	\$	£	6	\$4	\$2	₹.	€
1.5	0.5	N/A	Ν̈́Α	4.	0.5	0.5	A/A	N/A	A V	ΑX	A/A
N/A	N/A	N/A	N/A	This project helps facilitate the interconnection of a Biogas facility.	N/A	N/A	N/A	N/A	N/A	N/A	NA
To prevent power interruption and maintain a 97 MW reserve requirement in the Yuma Area Sanguinetti and adjacent 69kV lines and rebuilds are needed.	Dugas Sub Reroute Phase 2 will reroute the existing 69kV line around the new Dugas Sub. This job will allow the connection of the Dugas to Copper Canyon 69kV.	Rebuild structure #22/4 (Verde-Coconino 230kV line) which includes adding two poles to the structure and changing out the framing. Also added deadends, pole bands, and anchors to seven other structures. This job required extensive road work to be done in order to access these poles.	The Gateway substation is needed to serve the need for electric energy for the North Phoenix area. It is also needed to preserve continuity of service for the loss of the Deadman Wash - New River 69kV transmission line.	APS to install 11,700 feet of ADSS 48 count Fiber and 16,650 feet of AD non-self supporting 48 count fiber starting at El Soi substation to Meridian substation and then from Meridian substation to existing fiber out of Lakefield substation. This job provides communications and relays between all three substations.	The third Butte - Ocotillo 69kV transmission line is needed to serve the need for electric energy for the area around Arizona State University,	Construction of a new 3 phase 33kV line from Ehrenberg Substation to accommodate Spectrum Energy for a new pump station.	Series Cap Bank C6 (CBSE179) will be upgraded from 1750 amps /16.5 ohms to 2250 amps / 25.7 ohms to increase the path rating.	At Valley Farms, add 115/69kV and 69kV/12.47kV transformers, add 69kV bus and associated equipment. This work is required to serve the load in the Florence area.	Replaced 20 - 69kV poles on the Saddle Mountain - Harquahala 69kV line due to storm damage. Also replaced 28 poles that were 12kV underbuild.	Refurbish T577; 230/115kV transformer at Santa Rosa. Regasket, rebuild pumps, replace all bushings. Full drain required. Available as spare.	Install T201 relay control panel and relays.
\$514,693	\$500,643	\$493,851	\$479,529	\$455,186	\$441,423	\$427,050	\$418,785	\$404,480	\$385,762	\$377,038	\$363,048
Redondo to Foothills Tap	Dugas Sub Re-Route Phase 2	Rebuild Structure #22/4 & Add Anchors	69KV Duct Crossings/Cap Canal To Dove Valley	Ei Sol Luke Field Network Upgrade	Ocotillo to Butte - 69kV Line (EV2)	Ehrenberg-Spectrum Energy Improvement	Moenkopi: Upgrade Series Cap Bank C6 From 1750 amps to 2250 amps	Valley Farms: 115/69kV Substation	M-107-6 Storm Damage	Refurb T577 - Replace bushings	Install T201 relay control panel and relays
W422491	W445239	W447599	W361361	W459346	W265349	W421800	W390888	W256684	W470522	W393447	W366718
45.	43.	44	45.	46.	47.	48 9.	49.	50.	5 .	52.	53.

Oct-09	Aug-09	May-09	60-Inr	Dec-09	Dec-09	Jan-09	Oct-09	Jan-09	
\$1,310	\$2,072	\$3,289	\$2,435	\$395	\$394	\$4,490	\$1,002	\$3,850	\$803,404 \$78,075 \$881,480
N/A	A/N	0.5	N/A	N/A	N/A	N/A	N/A	A/N	1
NA	A/N	N/A	N/A	N/A	¥)	ΝΑ	N/A	∀ Ż	
The foundations at Tower # 44/2 on the east 345kV circuit have shifted causing the tower steel to bend & buckle. Continued movement of the foundations would eventually result in a tower collapse. This tower is located at 8,800 if elevation in the Chuska Mountains of northwestern New Maxico and is part of the Four Comers to Cholla transmission system. Repairs at this site included: Site work and access road improvement, geotechnical analysis and foundation design, installation of reinforced foundations, fabrication of new tower steel, erection of longer leg extensions, transfer of the tower body to the new leg extensions.	Replaced 20 - 69kV poles with 12kV underbuild on the Butterfield Tap - Gila Bend 69kV line due to storm damage.	This job will relocate the 517' of A795V 69kV wire and 1936' of R002W 12kV. This is the first of phase of two. The City of Yuma is widening County 16th Street (US 95). Construction is to be from Yuma Palms Parkway to Arizona Ave.	This project will result in increased reliability and continuity of service to the Cholla - Showlow system for loss of either the Cholla - Zeniff or Cholla - Showlow 69kV lines.	This project is to account for the labor & material to construct fire containment basins around transformers that were installed in 2005 \$ 2006. This work will occur in various sub-transmission substations. Cactus, Coconino, Deer Valley, and Surprise substations were included in this work order.	Relocation of two 69kV transmission line poles that are in conflict with the new City of Glendale/Peoria/ADOT road improvement project.	This job will replace 20 poles on M105 line due to poor condition. The job will also remove two distribution poles to abandoned well bank.	This project replaced a T359 type U bushing.	Relocated Cave Creek - Dixileta 69kV line with 12kV underbuild at 56th St & Dove Valley Rd due to conflict with customer project.	,
\$346,891	\$329,311	\$326,727	\$322,558	\$313,884	\$313,154	\$297,369	\$265,511	\$254,971	\$133,622,990 \$10,273,069 \$143,896,059
Chuska Mntns Relocate 44/2, 345-1	M1114: Strom Replace (20) 69KV POLE	City of Yuma; 16 St Widening	Zeniff Sub-Drops	Transmission Substations: Transformer Fire Containment Basins	81 Ave & Beardsley	Climbing Inspection & pole replacement capital 2008 M-105	T359 Type U Bushing Replacement	56th St & Dove Valley 69 Relocate	Total projects placed in-service in 2009 exceeding \$250,000 All additional projects Total additions
W464962	W470014	W390036	W430551	W322898	W361935	W391507	W378473	W352810	Total projects placed All additional projects Total additions
	55	98	57.	83	.	90.	61.	62	\$ 4. 8.

Substation 500Kv Portion of Yard North Valley: Pinnacle Peak 500kV Build New Switchyard Morgan 500/230Kv Build New Substation 500Kv Portion of Yard TS9-500KV Substation	Helps schedule The project is needed to increase the import capability to the Phoenix Valley by North Valley: 500kV TS9 - Raceway Build \$53,278,278,275 area to provide access to both solar and gas resources. The project scheduling scheduling strengthens the transmission system on the east side of the capability from PV Hub and Navajo system.
\$10,900,000 project is needed to increase the import capability to the Metro area and the export/scheduling capability from the area to provide access to both solar and gas resources.	and the report/scheduling capability from the Palo Verder annewables to Phx and the protor cure as the import capability to the Phoenix and the east side of the soroes to both solar and gas resources. The project valley by thems the transmission system on the east side of the scheduling capability from PV (3) 500kV CCVTs, (18) arrestors. In project includes (3) 500k200kV (3000k, 3000h, 3000h, 63kb breakes, (14) 500kV, 3000h, 63kb breakes, (14) 500kV, 3000h, 63kb breakes, (14) 500kV (3000h, 63kb breakes, (14) 500kV, 3000h, 63kb breakes, (14) 50kb breakes, (
-	This is part of the TS9-Pinnacle Peak 500kV project. The overall project is needed to increase the import capability from the Palo Verde renewables to are at the transmission system on the east side of the propert valley by also strengthens the transmission system on the east side of the propert valley by also strengthens the transmission system on the east side of the propert valley by transformers, (4) 500kV 3000A, 63kA breakers, (14) 500kV, 3000A awitches, (5) 500kV CCVTs, (18) arrestors, insulators, buswork, connectors, misc. hardware, crane rentals, and system. This is part of the TS9-Pinnacle Peak 500kV project. The overall project is needed to increase the import capability to the Phx Metro area and the export/scheduling capability from the Palo Verde area to Yelley by provide access to both solar and gas resources. The project also strengthens the transmission system on the east side of the Phx scheduling the Pinnacle Peak Substation. The Common Area includes the plant Band Nava grade, control panels, communications, and control house. Helps scheduling capability from the Pelio Verde area to the Phx scheduling area of the Morgan-Pinnacle Peak 500kV project. The overall renewables to provide access to both solar and gas resources. Helps scheduling capability from the Pelio Verde access to both solar and gas resources. Helps scheduling capability from the Pelio Verde access to both solar and gas resources. Helps scheduling capability from the Pelio Verde access to both solar and gas resources. Helps scheduling capability from the Pelio Verde access to both solar and gas resources. Helps scheduling capability from the Pelio Verde access to both solar and gas resources. Helps scheduling capability to the Phoenix increasing the morgan-Pinnacle Peak 500kV project. The overall renewables to provide access to both solar and gas resources. Helps scheduling capability to the Phoenix increasing the morgan-Pinnacle Peak 500kV project. The overall renewables to provide access to both solar and gas resources
\$14,953,539	This project the project that the projec
Substation ~ 500Kv Por North Valley: Pinnacle F New Switchtyard Morgan 500/230Kv Build 500Kv Portion of Yard 1759 - 500KV Substation	-
W362357	÷

Jun-10	Dec-10	Dec-10	Dec-10	Sep-10	10-10.	Dec-10	Jul-10	Dec-10
\$68,373	\$9,229	\$7,258	\$6,033	\$22,650	\$32,367	\$3,978	\$23,857	\$3,752
N/A	5.	ΑΊΑ	ď,	₹/X	8,	N/A	£.	N/A
Helps schedule renewables to Phx Valley by increasing the scheduling capability from PV Hub and Navajo system.	N/A	N/A	N/A	N/A	N/A	Helps deliver renewable resources to local load	N/A	N/A
This is part of the Morgan-Pinnacle Peak 500kV project. The overall project is needed to increase the import capability to the Phoenix Metro area and the export/scheduling capability from the Palo Verde area to provide access to both solar and gas resources.	Freeport McMoRan inc. (FMI) has future plans to expand the mine in the location of the existing 115kV transmission fine. They have requested that APS move the line in a southerly direction beyond the limits of the planned expansion.	Replace seven SFA 500kV breakers at Palo Verde.	Replace series capacitor bank C15 (located at the Cholla end of the Cholla-Saguaro 500kV line). The bank is obsolete and requires high cost, frequent maintenance, and is unreliable. Based on its condition, age, and reliability the capacitor bank requires replacement. The bank's rating will be upgraded to meet system needs.	Purchase a 22 acre substation site to be served from the Morgan to Pinnacle Peak 230kV line and will provide for future growth in the north Metro Phoenix area.	The Gateway substation is needed to serve the need for electric energy for the North Phoenix area. It is also needed to preserve continuity of service for the loss of the Deadman Wash - New River 69kV transmission line.	This project is part of the North Valley 230kV project which is needed to serve the need for electric energy in the area immediately north of the Phoenix Metro area and the northern portions of the Phx Metro area. Additionally, improved reliability and continuity of service will result for the growing communities in the area; such as Anthem, Desert Hills, New River, and north Phoenix.	The Gateway substation is needed to serve the need for electric energy for the North Phoenix area. It is also needed to preserve continuity of service for the loss of the Deadman Wash - New River 69kV transmission line.	Replace the existing 3-phase 57 MVAR reactor (SR76) due to end of life with a 3-phase switchable 170 MVAR reactor. The existing reactor will be kept as a spare at Moenkopi.
\$7,762,334	\$7,334,000	\$5,768,000	\$4,794,818	\$4,500,000	\$4,287,064	\$3,161,680	\$3,159,928	\$2,982,000
North Valley: TS9 500/230kV Build New Substation	Bagdad 115kV Relocate, Construct New 115-6 Line	Palo Verde Switchyard ; Replace Seven SFA 500kv Breakers - Arizona Nuclear Power Project (ANPP)	Cholla: Replace Series Cap Bank C15	TS-6 Substation Purchase	North Black Canyon Corridor/Underground 69KV	North Valley: Pinnacle Peak Upgrade 230kV Breakers	North Black Canyon Corridor/Underground 69KV	Moenkopi: CBI 10-02 NSTS 500KV Reactor Replacement (SR76)
W360335	W394743	W327449	W458211	W481042	W308852	W360340	W308848	W461116
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Artzona Public Service Company 2010 Transmission Estimated Addition Dollars and O&M

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Jun-10	Dec-10	Jun-10	Dec-10	Jun-10	Jun-10	Dec-10	Jun-10
\$24,913	\$3,169	\$21,706	\$3,074	\$20,453	\$19,185		\$14,871
N/A	3.3	6.5	4.7	~	N/A	N/A	N/A
Helps deliver renewable or resources to local load	V/A	8 N/A	N/A	N/A	N/A	Helps deliver renewable resources to local load	N/A
This project is part of the North Valley 230kV project which is needed to serve the need for electric energy in the area immediately north of Helps deliver the Phx Metro area and the northern portions of the Phx Metro area. renewable Additionally, improved reliability and continuity of service will result for resources to local the growing communities in the area; such as Anthem, Desert Hills, load New River, and north Phoenix.	This Project is needed to provide the electrical support to the sub- transmission system to serve the need for electric energy in the Winslow area. The project will improve the continuity of service for the growing communities in the area for loss of Cholla - Leupp 230kV line.	This project is needed to provide electrical support to the sub- transmission system to serve the need for electric energy in the Yuma area and increasa continuity of service in the area for loss of N. Gila - Foothills 69kV line.	This Project is needed to provide the electrical support to the subtransmission system to serve the need for electric energy in the Flagstaff area. The project will improve the continuity of service for the growing communities in the area for loss of Verde - Oak Creek 69kV line.	The Pyramid Peak - Raceway 69kV transmission line is needed to preserve continuity of service for the loss of either of the Happy Valley - Westwing 69kV or Adobe - Deer Valley 69kV transmission lines.	The TS2 substation is needed to serve the growing need for electric energy for the Southwest Valley. It is also needed to preserve the continuity of service for the loss of a transformer at either the Westwing, El Sol or Palm Valley substations.	This project is needed to serve the need for electric energy in the largely undeveloped areas west of the White Tank Mountains. This project will provide the first portions of the transmission in this largely undeveloped area and provides a transmission connection between the northern and southern transmission sources that will serve the area. Improved reliability and continuity of service will result for this portion of Maricopa County.	This portion of the Sundance-Pinal Central 230kV project is being done to provide the other project participant, ED2, with a 230/69kV connection they need to serve their load.
\$2,828,329	\$2,518,302	\$2,464,311	\$2,443,042	\$2,321,991	\$2,178,000	\$1,760,000	\$1,688,329
North Valley: Raceway 230kV - Add New 230kV Bay	Winslow to Cholla Phase 2	North Gila - Kinder Morgan Reconductor	Coconino - Kachina 69kv	Raceway to Pyramid Peak	TS2 230/69kV Substation Land Purchase	Siting for the 230kV Infrastructure for West of the White Tank Mountains	Sundance 230/69kV OH Extension; Procure & Construct For ED2
W360339	W359356	W270030	W426210	W361817	W300496	W341466	W467476
.	5 .	17.	1 8.	19.	20.	73.	22.

igan to Arica 69kV &12kV dance to Pinal South Arenburg Ranches and 69/12 on La Plama & Hajo: CBI 09-01R (NSTS) KV Live Tank Breakers arie Peak: Fire Suppress gramme - New Pinnacle Pigamme - New Pinnacle P	5	APS to install approximately 2.5 miles of 69kV line with double circuit underbuild 12kV from Milligan sub up to Tryon St. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the city of Eloy. Approximately 6 miles of land acquisition through private and state lands for the 230kV transmission line from Sundance Generating Station to the Pinal Central substation. APS to install approximately 3.5 miles of double circuit 69kV (795AA) with a 96 count OPGW fiber line (F656C) from the existing White Spar to Wickenburg 69kV Line up to the new Flores substation. APS to install Approximately 2.9 miles of 69kV with single circuit underbuild 12kV from Tryon & Battaglia up to La Palma & Shedd Rd in Eloy. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the city of Eloy. Replace two 25+ year old pressure live tank breakers which are obsolete, require high maintenance, and are expensive to overhaul. The pneumatic mechanisms, mechanical linkages and interrupters are complex, difficult to understand, troublesome and would now require a vendor presence to overhaul. This project is needed to provide electrical support to the subtransmission system to serve the need for electric energy in the Yuma area and increase continuity of service in the area for loss of N. Gila Foothills 69kV line. This is part of the Morgan-Pinnacle Peak 500kV project. This project is to install fire suppression at the new Pinnacle Peak 500kV project is to install fire suppression at the new Pinnacle Peak 500kV recitived for its to install fire superassion at the new Pinnacle Peak 500kV recitived for its to install fire superassion at the new Pinnacle Peak 500kV recitived for its to install fire superassion at the new Pinnacle Peak 500kV recitived for its to install fire superassion at the new Fire Peak 500kV project. This project is to install fire superassion at the new Fire Peak 500kV project is to install fire supe	N/A leips the levelopment of enewable esources in Pinal county by trengthening the trengthening the variantilission ystem in the area. N/A N/A N/A N/A	2.5 3.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	\$1,929 \$1,762 \$1,672 \$1,403 \$1,366	Dec-10 Dec-10 Dec-10 Dec-10
Milligan to Arica 69kV &12kV 2.5 Millee Sundance to Pinal South Sundance to Pinal South Wickenburg Ranches Extend 69/12 on La Plama & Battaglia Extend 69/12 on La Plama & Battaglia Bravajo: CBI 09-01R (NSTS) Replace 500kv Live Tank Breakers SWB To Ivalon Programme - New Pinnacle Peak Sub Programme - New Pinnacle Peak Sub Saguaro: Add (2) New 34.5kv 50Mva	Milligan to Arica 69kV &12kV Sundance to Pinal South Wickenburg Ranches Extend 69/12 on La Piama & Extend 69/12 on La Piama & Pootro Live Tank Breakers SWB To Ivaton SWB To Ivaton Pinnacle Peak: Fire Suppress Programme - New Pinnacle Page	Z)	APS to install approximately 2.5 miles of 69kV line with double circuit underbuild 12kV from Milligan sub up to Tryon St. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the city of Eloy. Approximately 6 miles of land acquisition through private and state lands for the 230kV transmission line from Sundance Generating Station to the Pinal Central substation. APS to install approximately 2.5 miles of double circuit 69kV (795AA) with a 66 count OPGW fiber line (F56C) from the existing White Spar to Wickenburg 69kV Line up to the new Flores substation. APS to install Approximately 2.9 miles of 69kV with single circuit and Eabstagian to Arica substation to serve the prison load in the city of Eloy. The purpose of this project is to build a new 69kV (ine from Milligan to Arica substation to serve the prison load in the city of Eloy. Replace two 25+ year old pressure live tank breakers which are obsolete, require high maintenance, and are expensive to overheu. The preumatic mechanisms, mechanical linkages and interrupters are complex, difficult to understand, troublescome and would now require a vendor presence to provide electrical support to the subtransino system to serve the need for electric energy in the Yuma area and increase continuity of service in the area for loss of N. Gilafoutinis is part of the Morgan-Pinnacle Peak 500kV project. This project is to install fine suppression at the new Pinnacle Peak 500xV project. This project will install two new shurt reactors, which are required for	## \$1,532,998 Broinstall approximately 2.5 miles of 89kV line with double circuit underbuild 12kV from Milligan but D Tryon St. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the crty of Eloy. Approximately 6 miles of land acquisition through private and state lands for the 230kV transmission line from Sundance Generating Station to the Pinal Central substation. APS to install approximately 3.5 miles of double circuit 69kV (795AA) with a 96 court OPGW fiber line (F65Gc) from the existing White Spar to Wickenburg 69kV Line up to the new Flores substation. APS to install Approximately 2.9 miles of 69kV with single circuit underbuild 12kV from Tryon & Battagila up to La Palma & Shedd Rd in Eloy. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the city of Eloy. Replace two 25+ year old pressure live tank breakers which are obsolete, require high mailtenance and are expensive to coverhau! This project is needed to provide electrical support to the subfrancemission system to serve the need for electric energy in the Yuma area and increase continuity of service in the area for loss of N. Gila-frontills 69kV line. This is pert of the Morgan-Pinnacle Peak 500kV project. This project is to install fire suppression at the new Pinnacle Peak 500/20kV is to install fire suppression at the new Pinnacle Peak 500/20kV is to install fire suppression at the new Pinnacle Peak 500/20kV is to install fire suppression at the new Pinnacle Peak 500/20kV is to install fire suppression at the new Pinnacle Peak 500/20kV is to install fire suppression at the new Pinnacle Peak 500/20kV is in install fire suppression at the new Pinnacle Peak 500/20kV is in install fire suppression at the new Pinnacle Peak 500/20kV is in install fire suppression at the new Pinnacle Peak 500/20kV is in install fire suppression at the new Pinnacle Peak 500/20kV is in install fire suppression at the new Pinnacle Peak	\$1,532,988 underbuild 12kV from Milligan to Arios substation to serve the prison load in the city of Eloy. Approximately 6 miles of land acquisition through private and state prevelopment of serve the prison load in the city of Eloy. Approximately 6 miles of land acquisition through private and state reveable lands for the 230kV transmission line from Sundance Generating search in the area. APS to install approximately 3.5 miles of doubte circuit 69kV (795AA) with a 96 count OPGW fiber line (F656C) from the existing White Spar to Wickenburg 69kV Line up to the new Flores substation. APS to install Approximately 2.9 miles of doubte circuit 69kV (795AA) with a 96 count OPGW fiber line (F656C) from the existing White Spar to Wickenburg 69kV Line up to the new Flores substation. APS to install Approximately 2.9 miles of 69kV with single circuit underbuild 12kV from Tryon & Battaglia up to La Palma & Shedd Rd In In Eloy. The unpose of this project is to build a new 69kV (795AA) with a from Flores substation to serve the prison load in the city of Eloy. Replace two 25+ year old pressure live tank breakers which are obsolete, require high maintenance, and are expensive to overhaul. The pre-unatire mechanisms, mechanical linkages and interrupters are complex, difficult to understand, troublesome and would now require a ventor presence to overhaul. This project is needed to provide electrical support to the sub-required increase confluitly of service in the area for loss of N. Gila - Foothilis 69kV line. This is part of the Morgan-Pinnacle Peak 500kV project. This project is in install fine suppression at the new Pinnacle Peak 500230kV self-lines. This includes installing piping, operating system, and nozales. This project will install two new shunt reactors, which are required for includes installined to the sub-required for the sub-register.	APS to install approximately 2.5 miles of 98kV line with double circuit underbuild 12kV from Miligan sub up to Tryon St. The purpose of this propose of this serve the prison load in the city of Eloy. 14.400,000 Serve the prison load in the city of Eloy. 15.1400,000 Serve the prison load in the city of Eloy. 16.1400,000 Serve the prison load in the city of Eloy. 17.1400 Serve the prison load in the city of Eloy. 17.1400 With a Serve the Pinal Central substation. 18.1,371,740 With a Serve the Inal Central substation in the city of Eloy. 18.1,371,740 With a Serve the Inal Central substation in the city of Eloy. 18.1,371,740 With a Serve the Inal Central support to the substation. 18.1,371,740 With a Serve the Inal Serve the

May-10	Apr-10	Dec-10	Jun-10	Dec-10	Dec-10			Jun-10	Apr-10
						Jan-10	Feb-10		
\$9,464	\$10,165	\$1,107	\$7,488	\$976	\$944	\$11,114	\$10,096	\$6,300	\$7,760
N/A	6.	3.5	A/N	<u>5</u>	N/A	N/A	-	N/A	NA
Helps deliver renewable resources to local load	N/A	N/A	A/N	N/A	Ϋ́N	N/A	N/A	N/A	The Morgan- Pinnacle Peak project helps schedule renewables to Phoenix Valley by increasing the scheduling capability from PV Hub and Navajo system.
This project is part of the North Valley 230kV project which is needed to serve the need for electric energy in the area immediately north of Helps deliver the Phx Metro area and the northern portions of the Phoenix Metro renewable area. Additionally, improved reliability and continuity of service will resources to result for the growing communities in the area; such as Anthem, load Desert Hills, New River, and north Phoenix.	Provide an approximate 1850 feet of over-head to underground conversion of the Oak Creek to Oak Creek Tap 68kV over-head line so that the developer, BySynergy LLC, is able to construct the Bella Terra on Oak Creek subdivision located at Highway 89A and south along Red Rock Loop Road in Sedona.	This project is needed to provide the electrical source and support to the distribution system to serve the electrical needs in the Holbrook area.	Reliability	Rebuild 1.2 miles of 69kV Single Circuit to Double Circuit. A second source into White Spar is needed to prevent Power interruption for loss of the Prescott City - White Spar 69kV line.	This breaker is scheduled to be replaced on the SFA Breaker Replacement Schedule.	This project is to replace the SCE reactors at Four Corners per the SCE Reactor Replacement Schedule.	Relocation of 1 mile of the Adobe - Biscuit Flat 69kV transmission line to move it out of the way of the future APS 500kV transmission line.	The line was found to have insufficient ground clearance. The conductors were re-sagged and brought up to the correct Ruling Span tension.	This is for the development of the Morgan-Pinnacle Peak 500kV project. Specifically this project will help with the development of the Pinnacle Peak 500kV substation.
\$940,100	\$897,571	\$879,756	\$850,081	\$775,907	\$750,000	\$736,035	\$729,419	\$715,223	\$685,252
North Valley: TS9 230kV Substation Overhead Line Drops	Bella Terra/69KV Overhead-Underground Conversion	East Holbrook Phase 3	Climbing Inspection 2007 Capital 230-8	Prescott City to White Spar Sub 69kV Rebuild Phase 2	Cholla: Replace 345kV CH1032 (B1213) Breaker & Associated CT'S (CH3)	Four Corners 5: Replace (2) 500kV	Biscuit Flat to Adobe Relocate Overhead 69KV	Climbing Inspection Capital 2008 230-1	Sale of Land at Pinnacle Peak Sub to SRP
W360331	W320123	W305333	W333674	W464630	W441712	W436668	W411636	W394163	W461743
<u>ن</u>	32.	33.	34.	35.	36.	37.	99 9	39.	0,

1.	W473935	Pinnacle Peak 500kV Build New Substation – 230 Kv Portion of Yard	\$651,073	The Morgan-Pinnade Peak Project for the Pinnade Peak Project for the 230kV portion of the yard. This includes (12) 230kV, 3000A, 63kA schedule breakers, (1) 345kV, 3000A switch, (24) 230kV, 3000A switches, (17) renewables to 230kV cCVTs, insulators, buswork, connectors, misc. hardware, Phoenix Valley crane rentals, and steel structures for materials to construction yard. increasing the Labor for above grade electrical installations, APS inspectors and capability from project management.	The Morgan- Pinnacle Peak project helps schedule) renewables to Phoenix Valley by increasing the scheduling capability from PV Hub and Navajo system.	k sy by N/A e m PV ajo	\$819		Dec-10
42.	W470790	Morgan Sub 69KV Relocate Phase 2	\$619,079	Relocate the existing Humbug to Raceway 69kV line around the new Morgan sub. This work is necessary to provide room for the new 500/230kV drops into the new Morgan sub. This job requires removing 0.47 miles of 69kV line and installing 0.96 miles of 69kV line.	N/A	0.96	\$5,453		Jun-10
43.	W47B587	Arica-Milligan Tryon Portion	\$595,628	APS to install approximately 1 mile of 69kV line with single circuit underbuild 12kV on Tryon from Alsdorf Rd to Battaglia Rd in Eloy. The purpose of this project is to build a new 69kV line from Milligan to Arica substation to serve the prison load in the city of Eloy.	N/A	-	\$5,246		Jun-10
44.	W463074	Automated Train 44th St 69kv Overhead Relocation	\$570,810	This project is to remove overhead 69kV, with 12kV underbuild & fiber, located at 40th St and Madison St. This overhead 69kV line is in conflict with the new automated train terminal into Sky Harbor Airport.	A/A	0.5	\$8,619	Jan-10	
45	W407451	Dugas Substation Communication Support - Microwave & Fiber	\$565,832	This project is needed to establish system communications to Dugas 500/69kV substation required to provide the electrical source and support to the sub-transmission system to serve the electrical needs in the Verde Valley and Prascott areas. Also, the project will result in increased reliability and continuity of service for the Verde Valley and Prescott areas for loss of Verde - Cottonwood 69kV line.	N/A	N/A	\$5,696		MBy-10
46.	W422505	Cholla-Pinnacle Peak 345kV Reconductor, Mogollon Rim	\$542,389	Reconductor a one mile portion of the CH-PP 345kV line on the Mogotlon Rim that was rebuilt years ago to single conductor rather than the original bundled design. The single conductor 1272 ACSR limits the current carrying capacity of the line.	Increasing the rating of this path will allow PS the ability to deliver more renewable resources to the Phoenix Valley from the Cholla and Four Comers.	s oath S the er er ble 1 he he la and	\$1,365		Nov-10

May-10	\$4,993 May-10	\$4,325 Jun-10	\$6,669 Jan-10	\$6,612 Jan-10	\$3,020 Jul-10
3.3	N/A	.	56	0.5	A/A
N/A	Helps deliver renewable resources to local load	NIA	The Morgan- Pinnacle Peak project helps schedule renewables to Phx Valley by increasing the scheduling capability from PV Hub and Navajo system.	N/A	N/A
Purchase approximately 11 acres of Right of Way easements. 2 miles along La Palma Rd. between Shedd Rd. and Battaglia Dr. and 1 mile along Battaglia Dr. between La Palma Rd. and Sunshine Blvd.	APS to relocate WAPA's Westwing-Raceway 230kV turning structure and line drops at Raceway substation. This is needed to make room for the APS 230kV line drops at Raceway from the Morgan-Pinnacle Peak 500/230kV line. This project is part of the North Valley 230kV project, which is needed to serve the need for electric energy in the area immediately north of the Phx Metro area and the northern portions of the Phx Metro area. Additionally, improved reliability and continuity of service will result for the growing communities in the area; such as Anthem, Desert Hills, New River, and north Phoenix.	The Lincoln Street - Sherman Street 69kV transmission line must be rebuilt to preserve continuity of service for the loss of the Durango - West Phoenix 69kV transmission line.	This is for the development of the Morgan-Pinnacle Peak 500kV project. Specifically it will help with developing and obtaining the CEC for the project.	Lincoln Drive & 24th Street: converting existing 3-A795V+ NS to R795X+FOC, in collaboration with SRP (12kV). Also, adding additional 48 count FOC to existing 3-R795X+ FOC. The line is located inside the 24th Street water treatment plant.	This project is needed to provide the electrical source and support to the distribution system to serve the electrical needs in Clarkdale.
\$500,000	\$496,000	\$491,000	\$441,683	\$437,868	\$400,000
Segment 2 Of 69/12KV Line From SE12 To Milligan	Relocate WW-Waddell Dam 230kV Line Drops at Raceway	Sherman Street Substation to Lincoln Street Substation 69kV Line	Morgan to Pinnacle Peak 500/230kV Transmission Project CEC	Orangewood to Mummy Mountain	Clarkdale Substation Purchase
W397538	W446808	W358717	W315283	W442761	W461668
47.	8,	49. 9.	90	51.	52.

Jun-10	Dec-10	Dec-10	May-10	Sep-10		Jun-10		
					Feb-10		Feb-10	Feb-10
\$3,387	\$457	\$402	\$3,086	\$1,526	\$4,028	\$2,396	\$3,736	\$3,620
N/A	∀ /N	72	Ą/N	ΝΆ	0.5	X/X	K/A	N/A
Helps deliver renewable resources to local load	N/A	N/A	N/A	N/A	V/V	N/A	N/A	N/A
This project is part of the North Valley 230kV project which is needed to serve the need for electric energy in the area immediately north of Helps deliver the Phys. Metro renewable area. Additionally, improved reliability and continuity of service will resources to result for the growing communities in the area; such as Anthem, load Desert Hills, New River, and north Phoenix.	Installing and Upgrading Security/Alarm systems at El Sol substation.	This 69kV line is located in a designated high lighting area, this project is needed to better protect the line and increase reliability in the Winslow area.	This project is to complete the relay upgrading project for North Gila substation.	Upgrade the Navajo Security system, installing a card reader access system, door alarm system, CCTV assessment system, and IP Network infrastructure for the control house.	Build .5 mile double circuit 69 line from Sanguinetti Sub down 6E to 24 St. This project is needed to provide electrical support to the subtransmission system to serve the need for electric energy in the Yuma area and increase continuity of service in the area for loss of N. Gila - Foothills 69kV line.	This project will replace manufacturer discontinued microwave radio and antenna hardware at the APS Signal Peak Electronic Station with new state-of-the-art hardware. Besides the obsolete equipment replacements, this project will add new microwave radio equipment to increase the available communications capacity supporting the APS Northeast service area.	The PP #3 transformer has developed oil leaks on the turrets/manholes of bushings H1, H2 & H3. The turret leak had worsened and was visible on the ground. The bushing was changed out due to containing dark oil. Fans were also replaced.	This job replaced fifteen poles on SW2-1 (Eagle Eye-Salome 69kV line), due to storm damage.
\$384,500	\$362,869	\$319,524	\$306,584	\$303,087	\$291,036	\$272,008	\$269,914	\$261,515
Morgan 500/230Kv Build New Substation - 230Kv Portion of Yard	Installing and Upgrading Security/Alarm systems 2008	Blue Ridge to Winslow Reinsulate Phase 1	North Gila: Upgrade 69kV & 500kV Relaying	Upgrade Navajo Security system, Install card reader access system, door alarm system, CCTV assessment	Sanguinetti to 24 St. & 6E	Signal Peak Microwave Upgrade	Oil Leak at H2 & H3 Bushing Turrent	SW-2-1 Storm Trouble
W473938	W392160	W420107	W375145	W373369	W47480B	W479340	W436440	W493959
53.	54.	SS SS	56.	57.	28	6.	.09	61.

Apr-10	
\$2,888	\$1,145,600 \$74,759 \$1,220,359
N/A	
N/A	
Reactor circuit switcher WW/1624J failed during operation due to over duty. It will be replaced with a new circuit breaker made for reactor switching.	
\$255,000	\$207,251,642 \$9,836,723 \$217,088,365
WW CBI 09-11 Circuit Breaker 230kV Install 1 - WW1624J replace with B4239 I.P.O. 3000A 63KA.	Total estimated projects placed in-service in 2010 exceeding \$250,000 All additional projects Total additions
W473628	Total estimated projec 63. \$250,000 64. All additional projects 65. Total additions
62.	63. \$ 64. A 65. T

N/A 19 \$17,191 Jun-11	N/A \$9,657 Jun-11	N/A 5 \$1,298 Dec-11	N/A 45 \$818 Dec-11	N/A 0.5 \$5,096 Jun-11	N/A 84,404 Jun-11		N/A \$5,668 Mar-11	N/A \$5,668	N/A \$5,668	N/A \$5,668	N/A \$5,668	N/A \$5,668	N/A \$5,668 N/A \$503	N/A \$5,668 N/A \$503
A new 69kV line from Copper Cyn to Dugas is needed to prevent power interruption during an outage of the Cottonwood - Verde 69kV line.	Relocation of existing Pinnacle Peak - Boulevard/Desert Ridge double circuit 69kV transmission line for a new commercial development.	This Project is needed to provide the electrical support to the subtransmission system to serve the need for electric energy in the La Paz area. The project will improve the continuity of service for the growing communities in the area for loss of Eagle Eye - Salome 69V line.	Install 45 miles of 96 count Optical Ground Wire (OPGW) on existing 500kV towers between Dugas and Morgan Substations. This OPGW will replace the east 7.48 AW static wire on the east circuit of the parallel 500kV lines. The addition of this cable will complete a fiber link from Metro Phoenix north into Central Arizona. Also, this installation will provide the second fiber communication path to the recently completed Dugas Substation.	The Granite Reef substation is needed to serve the growing need for electric energy for the Northeast Valley area.	Costs to acquire approximately 12 acres of Arizona State Trust Land for a 230/69kV Transmission Substation near Red Rock, Pinal County.		CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/27/1/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/27/1273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications. APS to relocate 230kV N-S aerial crossing of I-10, west of SR143 for an ADOT road widening project of I-10.	CCVTs CC121/122/133/130/131/187/188/189 are 36 years old Westinghouse PCMs and are at the end of life. Analysis has determined a characteristic age of approximately 22 years. CCVTs 270/271/273 are 26 year old GE CD51s and are nearing end of life and are teamed with CCVTs 130 and 131. All these CCVTs serve the Navajo East and West Bus and Unit 1, Unit 2, and Unit 3 metering applications. APS to relocate 230kV N-S aerial crossing of I-10, west of SR143 for an ADOT road widening project of I-10.
\$1,951,692	\$1,096,356	\$1,031,153	\$650,016	\$578,552	\$500,000		\$450,417	\$450,417	\$450,417	\$450,417	\$450,417	\$450,417	\$450,417	\$450,417
Copper Cyn - Dugas	Desert Ridge SB1	McVay Tap Phase: 2	Dugas-Raceway 500kV Line: Install OPGW (Optical Ground Wire) (45 miles)	Granite Reef Substation Ug 69KV Feeder Lines - In & Out	TS-12 230/89kV Substation Acquisition		Navajo: Replace CCVTs CC121/122/123/130/131/187/188/189/270/27 1/272/273 CBI 08-03 (NSTS)	Navajo: Replace CCVTs CC121/122/123/130/131/187/188/189/270/27 1/272/273 CBI 08-03 (NSTS)	Navajo: Replace CCVTs CC121/122/123/130/131/187/188/189/270/27 1/272/273 CBI 08-03 (NSTS)	Navajo: Replace CCVTs CC121/122/123/13/13/1487/188/189/270/27 1/272/273 CBI 08-03 (NSTS)	Navajo: Replace CCVTs CC121/122/123/13/13/13/1487/188/189/270/27 1/272/273 CBI 08-03 (NSTS) Ocotillo-Kyrene 230kV Relocation @ I-10	Navajo: Replace CCVTs CC121/122/123/13/13/1487/188/189/270/27 1/272/273 CBI 08-03 (NSTS) Ocotillo-Kyrene 230kV Relocation @ I-10	Navajo: Replace CCVTs CC121/122/123/130/131/187/188/189/270/27 1/272/273 CBI 08-03 (NSTS) Ocotillo-Kyrene 230kV Relocation @ I-10 (ADOT)	Navajo: Replace CCVTs CC121/122/123/130/131/187/188/189/270/27 1/272/273 CBI 08-03 (NSTS) Ocotillo-Kyrene 230kV Relocation @ I-10 (ADOT)
W359507	W284027	W427281	W421823	W359498	W466651		W353149	W353149	W353149	W353149	W353149	W353149 W437451	W353149	W353149 W437451
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တ်	W372513	Rebuild between Wickenburg Substation and White Spar Substation	\$400,000	This line is over 60 years old and deteriorating. The rebuild is needed for reliability to the area.	N/A	45	\$3,523	Jun-11
6 ≒ 6 ;	Total estimated project \$250,000 11. All additional projects 12. Total additions	Total estimated projects placed in-service in 2011 exceeding \$250,000 All additional projects Total additions	\$7,058,185 \$1,335,915 \$8,394,100			•	\$48,158 \$10,153 \$58,311	

Attachment E

ARIZONA PUBLIC SERVICE COMPANY Estimated Monthly Bill Impacts of Proposed TCA-1

	(Current	Proposed		Current	P	Proposed	Current	Proposed
		Annual	Annual						
	,	verage	Average		Summer	;	Summer	Winter	Winter
Residential (Average - All Rates)		Monthly Bill (1)	Monthly Bill (1,2)		Monthly Bill	1	Monthly Bill	Monthly Bill	Monthly Bill
Average kWh per Month	-	1,177	1,177		1,417		1,417	936	936
Base Rates	\$	131.67	\$ 131.67	\$	170.43	\$	170.43	\$ 92.90	\$ 92.90
PSA- Forward Component		(2.14)	(2.14)		(2.57)		(2.57)	(1.70)	(1.70)
PSA - Historical Component		(3,15)	(3.15)		(3.79)		(3.79)	(2.50)	(2.50)
TCA		2.66	2.53		3.20		3.04	2.11	2.01
CRCC		0.40	0.40		0.48		0.48	0.32	0.32
EIS		0.19	0.19		0.23		0.23	0.15	0.15
RES		3.46	3.46		3,46		3.46	3.46	3.46
DSMAC		1.94	1.94		2.33		2.33	1.54	1.54
Total	\$	135.03	\$ 134.90	- \$	173.77	\$	173.61	\$ 96.28	\$ 96.18
Bill Impact Percent Bill Impact			\$ (0.13) -0.10%			\$	(0.16)		\$ (0.10)

Residential (Rate 5-12)	Annual Average Monthly Bill (1)		Annual Average Monthly Bill (1,2)	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill		Winter Monthly Bill	
Average kWh per Month		763	763	880	880		645	645	
Base Rates	\$	92.19 \$	92.19	\$ 115.21	\$ 115.21	\$	69.16 \$	69.16	
PSA- Forward Component		(1.39)	(1.39)	(1.60)	(1.60)		(1.17)	(1.17)	
PSA - Historical Component		(2.04)	(2.04)	(2.35)	(2.35)		(1.72)	(1.72)	
TCA		1.73	1.64	1.99	1.89		1.46	1.38	
CRCC		0.26	0.26	0.30	0.30		0.22	0.22	
EIS		0.12	0.12	0.14	0.14		0.10	0.10	
RES		3.46	3.46	3.46	3,46		3.46	3.46	
DSMAC		1.26	1.26	1.45	1.45		1.06	1.06	
Total	\$	95.59 \$	95.50	\$ 118.60	\$ 118.50	\$	72.57 \$	72.49	
Bill Impact		\$	(0.09)		\$ (0.10)		\$	(80.0)	
Percent Bill Impact			-0.09%						

Commercial (Rate E-32, 0-20 kW)	1	Annual Average Monthly Bill (1)	,	Annual Average Monthly 3ill (1,2)	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Wint Montl Bill	hly
Average kWh per Month		1,357		1,357	1,445	1,445	1,269		1,269
Base Rates	\$	189.17	\$	189.17	\$ 210.66	\$ 210.66	\$ 167.68 \$		167.68
PSA- Forward Component		(2.47)		(2.47)	(2.62)	(2.62)	(2.31)		(2.31)
PSA - Historical Component		(3.63)		(3.63)	(3.86)	(3.86)	(3.39)		(3.39)
TCA		2.57		2.18	2.73	2.32	2.40		2.03
CRCC		0.46		0.46	0.49	0.49	0.43		0.43
EIS		0.22		0.22	0.23	0.23	0.20		0.20
RES		11.76		11.76	12.52	12.52	11.00		11.00
DSMAC		2.24		2.24	2.38	2.38	2.09		2.09
Total	\$	200.32	\$	199.93	\$ 222.53	\$ 222.12	\$ 178.10 \$		177.73
Bill Impact			\$	(0.39)		\$ (0.41)	\$		(0.37)
Percent Bill Impact				-0.19%					

Notes:

⁽¹⁾ Bill excludes regulatory assessment charge, taxes and fees. Adjustor levels and interim base rate surcharge in effect as of May 1, 2010. (2) Bill includes impact of proposed revised charges in Adjustment Schedule TCA-1.

ARIZONA PUBLIC SERVICE COMPANY Estimated Monthly Bill Impacts of Proposed TCA-1

	Current		Proposed	Current		1	Proposed	Current		Proposed	
Commercial (Rate E-32, > 20 kW)	Annual Average Monthly Bill (1)		Annual Average Monthly Bill (1,2)		Summer Monthly Bill		Summer Monthly Bill		Winter Monthly Bill	Winter Monthly Bill	
Average kWh per Month	72,100		72,100		79,410		79,410		64,789	64,789	
Base Rates	\$ 6,863.50	\$	6,863.50	\$	8,121.00	\$	8,121.00	\$	5,606.00 \$	5,606.00	
PSA- Forward Component	(130.94)		(130.94)		(144.21)		(144.21)		(117,66)	(117.66)	
PSA - Historical Component	(192.80)		(192.80)		(212.34)		(212.34)		(173.25)	(173.25)	
TCA	217.38		178.34		231.81		190.18		202.95	166.50	
CRCC	24.37		24.37		26.84		26.84		21,90	21.90	
EIS	11.54		11.54		12.71		12.71		10.37	10.37	
RES	128.70		128.70		128.70		128.70		128.70	128.70	
DSMAC	173.54		173.54		185.06		185.06		162,02	162.02	
Total	\$ 7,095.29	\$	7,056.25	\$	8,349.57	\$	8,307.94	\$	5,841.03 \$	5,804.58	
Bill Impact Percent Bill Impact		\$	(39.04) -0.55%			\$	(41.63)		\$	(36.45)	

Industrial (Rate E34/35)	Annual Average Monthly Bill (1)	Annual Average Monthly Bill (1,2)	Summer Monthly Bill	Summer Monthly Bill	Winter Monthly Bill	Winter Monthly Bill
Average kWh per Month	4,008,132	4,008,132	4,083,098	4,083,098	3,933,165	3,933,165
Base Rates	\$ 278,565.00	\$ 278,565.00	\$ 283,775.00	\$ 283,775.00	\$ 273,355.00 \$	273,355.00
PSA- Forward Component	(7,278.77)	(7,278.77)	(7,414.91)	(7,414.91)	(7,142.63)	(7,142.63)
PSA - Historical Component	(10,717.74)	(10,717.74)	(10,918.20)	(10,918.20)	(10,517.28)	(10,517.28)
TCA	1,733.97	1,995.99	1,766.48	2,033.41	1,701.45	1,958,56
CRCC	1,354.75	1,354.75	1,380.09	1,380.09	1,329.41	1,329.41
EIS	641.31	641.31	653.30	653.30	629.31	629.31
RES	386,10	386.10	386.10	386.10	386.10	386.10
DSMAC	5,549.32	5,549.32	5,653.37	5,653.37	5,445.27	5,445.27
Total	\$ 270,233.94	\$ 270,495.96	\$ 275,281.23	\$ 275,548.16	\$ 265,186.63 \$	265,443.74
Bill Impact Percent Bill Impact		\$ 262.02 0.10%		\$ 266.93	\$	257.11

⁽¹⁾ Bill excludes regulatory assessment charge, taxes and fees. Adjustor levels and interim base rate surcharge in effect as of May 1, 2010. (2) Bill includes impact of proposed revised charges in Adjustment Schedule TCA-1.